

Method for In-vitro Testing of Active Substances, Device and Its Use

Summary:

A method for in-vitro testing of active substances on cells comprises at least the steps for providing a cell culture container with an interior chamber and an inside wall and with a first and second membrane system located in the interior chamber, with a cell culture chamber formed between the membrane systems and the inside wall of the interior chamber, providing a cell culture and cell culture medium in a cell culture space, supplying a fluid nutrient medium to the cell culture space, and carrying away metabolic products by means of the first membrane system, adding at least one gaseous medium to the cell culture space by means of the second membrane system, adding at least one active substance to the cell culture space, with the supplying taking place according to an adjusted active substance concentration-time curve and monitoring cell vitality. In addition, a device and the use of said device for testing the effect of idarubicin on the leukemic cell line CCRF CEM is described.